

# PROJECT facts

U.S. DEPARTMENT OF ENERGY  
NATIONAL ENERGY TECHNOLOGY LABORATORY

**Gas Exploration,  
Production and Storage**

08/2000

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## EMERGING TECHNOLOGIES FOR THE NATURAL GAS INDUSTRY – STRIPPER GAS WELLS

This technology area focuses on the development of new and improved technologies that can improve production performance in stripper gas wells. A three step process is used for stripper gas enhancement. The first step is to identify the "problem" well. This is accomplished by completing an assessment to determine the problem area, whether it be in the reservoir, wellbore, or collection/compression system. Step two is "measuring the problem," either by evaluating the reservoir characteristics, the drilling/completion processes used in the well, or the production operations present with low cost measurement being a key to the success. The final step is "solving the problem," which is the goal of this program. Dependent on the problem identified, three categories in which improvements can be made have been identified: reservoir remediation, wellbore clean-up, and surface system optimization. Areas under each category are listed below.

### Reservoir Remediation Technologies

- Restimulation
- Explosives/Propellants
- Extended-reach Jetting technology
- Identifying Additional Behind-Pipe Reserves

### Wellbore Clean-Up Technologies

- Perforation cleaning/reopening
- Fluid removal
- Solids removal
- Scale/Salt removal

### Surface System Optimization Technologies

- Low-pressure compression facilities
- Collection system optimization
- Water disposal



# EMERGING TECHNOLOGIES FOR THE NATURAL GAS INDUSTRY – STRIPPER GAS WELLS

## Current Activities

- Development of engineering methodologies which will identify the problem wells, determine the problem area, and recommend economic solutions to the problem. These systematic methodologies and techniques will increase the efficiency of problem assessment and implementation of solutions for stripper gas wells.
- Development of a self-contained, computer-controlled pumping system complete with telemetry displaying production performance that will be accessible through the internet.
- Development of a beneficiated coal based filtering system which will remediate stripper gas well produced water to agricultural quality water by reducing the hydrocarbon and metal salt contents.

## Stripper Gas Research

